

REPLACEMENT OF A 15" DRAIN FROM ROWE ST. to WEBSTER ST.

THIS WORKSHEET IS PROVIDED AS A COURTESY. THE CONTRACTOR IS RESPONSIBLE FOR CORRELATING THE INFORMATION SHOWN HERE WITH THE CONTRACT DOCUMENTS.

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	EXTENSION
1	Mobilization(Layout Services, Video File, Notifications, Meetings, General Administration Services)	1	LS		
2	Manufactured Silt-Sack for Catchbasin Sedimentation Control	4	EA		
3	Remove & Dispose of 6" thru 12" Tree (inclusive of the stump)	8	EA		
4	Remove & Dispose of 12" thru 24" Tree (inclusive of the stump)	1	EA		
5	Remove & Dispose of 24" thru 40" Tree (inclusive of the stump)	1	EA		
6	Remove & Dispose of 30" Residual Tree Butt (inclusive of the stump)	1	EA		
7	Remove & Dispose of a Pre-existing Stump	1	EA		
8	Disassemble and Subsequently Reset Portions of the Existing Chain Link Fence	50	LF		
9	Remove & Dispose of an Existing 6' Chain Link Fence (with the Salvage of Barb Wire Stanchions)	225	LF		
10	F&I A New 6' Chain Link Fence (Complete-in-place & Reset Barb Wire Stanchions)	225	LF		
11	Exploratory Excavation	15	CY		
12	General Excavation and Disposal of Material(s)	75	CY		
13	Extra Depth Excavation and Disposal of Unsuitable Material	100	CY		
14	On-Site Relocation of Existing Boulders over 1/2 Cubic Yard	10	CY		
15	Off-Site Disposal of Existing Boulders over 1/2 Cubic Yard	5	CY		
16	F&P Woven Polypropylene Geotextile Fabric (Fitted to the Trench with 2' Overlap at ends)	700	SY		
17	F&P 3/4" Fractured Crushed Stone (Primarily for Pipe Bedding)	150	TON		
18	F&P Gravel furnished from outside the site(For General Use) (See Plan Note @ Typical Pipe Installation)	500	TON		
19	F&P Dense Graded Crushed Stone	5	TON		
20	F&P Nominal 2"x12"x8' Pressure Treated Lumber (As Directed to Trestle the 16" Pipe)	80	EA		
21	F-T-L 16" Diameter Class 50 Ductile Iron Drain Pipe	475	LF		
22	Standard 4' Inside Diameter Drain Manhole (Exclusive of the Cover & Frame)	13	VF		
23	Trough Box' Structure (to transition pipe at angle points in shallow cut areas) (Exclusive of Cover & Frame)	5	EA		
24	Coring the Reinforced Concrete Culvert Wall on Rowe St. (20"Diameter) (If Field Conditions Necessitate)	8	INCH		
25	Plug the existing Opening in the Culvert Wall on Rowe St. (Includes 'water-damming' to perform the work)	1	L.S.		
26	F&I A Drain Manhole Cover & Frame	6	SET		
27	F&I A Single Catchbasin Grate & Frame	1	SET		
28	Adjust a pre-existing Utility Casting (Excluding Gate Boxes)	2	EA		
29	2" Bituminous Concrete for Temporary Patch	10	TON		
30	4" Type I-1 Bituminous Concrete for Permanent (Patch) Trench Resurfacing (Placed in two-Courses)	10	TON		
31	3" Type I-1 Bituminous Concrete for the Reconstruction of Walks & Driveways (Public & Private Property)	20	TON		
32	4,000 PSI Cement Concrete with Lampblack (@2 pounds/CY) for Sidewalk and/or Driveway Panel Repair	10	CY		
33	6" Depth Loam Border and Lawn Restoration	250	SY		
34	Materials Testing Allowance	1	ALL	\$500	\$500
35	Miscellaneous Work Allowance (Engineers Discretion)	1	ALL	\$2,000	\$2,000
36	Payment for Police Officer Services (Directly paid thru Inter-Departmental Billing)	1	ALL	\$4,000	\$4,000
37	Warning and/or Safety Devices for the Control of Construction Operations	1	LS		
38	Furnish & Mount Safety & Specialty Signboards (Inclusive of the Post System)	30	SF		

TOTAL

TOTAL + %

1. THE CONTRACTOR IS REQUIRED TO PROVIDE A SUPERVISOR OF OPERATIONS, A QUALIFIED INDIVIDUAL WHO WILL BE ON-SITE AT ALL TIMES TO ADDRESS ALL PROJECT BUSINESS AND/OR EMERGENCY CALLS.

2. HOURS OF OPERATIONS ARE SET BY LAW, NO MACHINES OR EQUIPMENT ARE TO BE ACTIVATED BEFORE 7:00 A.M. & NO WORK IS TO EXTEND BEYOND 4:30 P.M., NO WEEKEND OR HOLIDAY WORK, IS ALLOWED WITHOUT SPECIAL PERMISSION.

3. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ARRANGEMENTS WITH ALL ABUTTERS FOR THE PURPOSE OF ACCESSING THE PROJECT ZONE, OR HE SHALL OTHERWISE CONFINE HIS ACTIVITIES TO THE EASEMENT LIMITS.

4. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING, COMMUNICATING DIRECTLY WITH, AND SUBSEQUENTLY ADDRESSING THE NEEDS OF THE VISUALLY IMPAIRED, AND/OR THE PHYSICALLY CHALLENGED WHO RESIDE IN OR ABOUT THE PROJECT ZONE.

5. AREAS DISTURBED BEYOND THE LIMIT OF THE CONTRACT SHALL BE REPAIRED AND/OR RESTORED AT THE CONTRACTOR'S OWN EXPENSE AND LEFT IN A CONDITION COMPARABLE TO THE ORIGINAL, ALL OF WHICH IS SUBJECT TO THE ENGINEER'S APPROVAL.

6. THE CONTRACTOR SHALL MAKE A VIDEO AND/OR PHOTOGRAPHIC RECORD OF EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES AND/OR AS THE ACTIVITIES PROGRESS. THE CONTRACTOR IS RESPONSIBLE FOR DEFENDING AND/OR RESPONDING TO ALL DAMAGE CLAIMS.

7. A COPY OF THE VIDEO AND ANY SUPPLEMENTAL PHOTOGRAPHS SHALL BE SUBMITTED TO THE CITY ENGINEER UPON REQUEST.

8. THE DRAIN LINE GRADES, ONCE ADJUSTED, SHALL BE INSTALLED WITH USE OF A TRANSIT/LEVEL, AND THE CONTRACTOR IS FURTHER RESPONSIBLE FOR THE LAYOUT, LINE AND GRADE OF ALL OTHER MANHOLES, PIPES AND APPURTENANCES.

9. THE FINAL DETERMINATION OF THE SCOPE OF PROJECT, AS WELL AS THE PROJECT LIMITS, SHALL BE ESTABLISHED IN THE FIELD BY THE ENGINEER.

10. THE UNDERGROUND PIPES & STRUCTURES SHOWN ON THESE PLANS ARE TAKEN FROM THE BEST AVAILABLE DEPARTMENTAL SOURCES. THE CITY DOES NOT GUARANTEE EITHER THE ACCURACY OR THE COMPLETENESS OF THIS INFORMATION. THE CONTRACTOR MUST MAKE HIS OWN INVESTIGATIONS OF THE AREA(S) PRIOR TO MOBILIZATION.

11. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING CONDITIONS AND IS OBLIGATED TO IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OF PLAN VERSUS ACTUAL FIELD CONDITIONS, AS WELL AS ANY SUBSTANTIAL DIFFERENCES IN ESTIMATED QUANTITIES.

12. THE CONTRACTOR SHALL CONTRACT DIG SAFE @ 1'-8888-3444-7233 AND SHALL NOT OCCUPY ANY AREA(S) UNTIL THE AUTHORIZATION DATE HAS BEEN ATTAINED.

13. FOR FURTHER UTILITY SUPPORT, AND EMERGENCY RESPONSE REQUESTS, THE CONTRACTOR IS ADVISED TO CONTACT AND ESTABLISH PROTOCOL, WITH ALL ORGANIZATIONS HAVING UTILITIES IN THE PUBLIC WAY INCLUSIVE OF: 1. KEYSAN GAS, N-STAR ELECTRIC, VERIZON, AT&T CABLE, RCN CABLE, NEWTON WATER, NEWTON SEWER & DRAIN.

14. ANY UTILITY RELOCATIONS, AND/OR UTILITY ISSUES, ARE TO BE DIRECTLY ADDRESSED AND COORDINATED BY THE CONTRACTOR WITH THE RESPECTIVE UTILITY COMPANY AND ANY ADJOINING CITY OR TOWN WHENEVER APPLICABLE.

15. ANY DAMAGE TO THE EXISTING SEWER, DRAIN AND/OR WATER SYSTEMS WHICH IS NOT SPECIFICALLY DUE TO THE REMOVAL OF IMPACTED ROCK, SHALL BE REPAIRED AND/OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE UNLESS OTHERWISE NOTED. IMPACTED ROCK CONDITIONS ARE TO BE VERIFIED BY THE ENGINEER PRIOR TO ROCK REMOVAL.

16. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH U.S. OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION (OSHA) STANDARDS, AND MASSACHUSETTS DEPARTMENT OF LABOR OCCUPATIONAL SAFETY STANDARDS IN THE PERFORMANCE OF THIS WORK.

17. THE CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY ASPECTS OF THIS PROJECT, AND COMPLIANCE WITH THE MOST CURRENT OSHA REGULATIONS.

18. THE CONTRACTOR IS REQUIRED TO TAKE AS-BUILT NOTES AS THE WORK PROGRESSES. THIS ACTIVITY IS TO TAKE PLACE UNDER THE DIRECT SUPERVISION OF THE ENGINEER AND ALL RECORDS ARE TO BE SUBMITTED ON A DAILY BASIS. IN ADDITION, THE CONTRACTOR IS TO SUBMIT A FINAL AS-BUILT PLAN ON A FORMAT ACCEPTABLE TO THE ENGINEER.

19. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION, POSTING AND SUBSEQUENT REMOVAL OF ALL TEMPORARY PARKING BANS. SIGNS SHALL NOT BE POSTED ON TREES. THE CONTRACTOR IS TO APPRISE THE CITY OF NEWTON TRAFFIC DIVISION OF EACH POSTING.

20. ALL EXCESS EXCAVATION MATERIAL AND/OR WASTE ITEMS, OF ANY TYPE OR MATERIAL, INCLUSIVE OF SATURATED SOILS, ARE TO BE DISPOSED OF AT A LEGAL DUMPING SITE AT THE CONTRACTOR'S OWN EXPENSE. NO DISPOSAL SITE SHALL BE PROVIDED BY THE CITY.

21. ALL SITE GENERATED DEBRIS AND REFUSE IS TO BE REMOVED FROM THE SITE ON A DAILY BASIS. AT NO TIME SHALL PASSAGE OF ANY SIDEWALK AND/OR DRIVEWAY BE IMPEDED/BLOCKED BY STOCKPILED MATERIAL(S).

22. ANY STAGING AND STOCKPILING AREA SHALL BE KEPT IN A CONDITION ACCEPTABLE TO THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY ASPECTS RELATIVE TO THIS AREA.

23. ALL EXCAVATIONS ARE TO BE BACKFILLED IN LIFTS, WITH EACH SUCCESSIVE LIFT BEING COMPACTED ONLY WITH APPROVED COMPACTORS AND/OR PNEUMATICALLY POWERED TAMPING BITS, UNTIL SUCH TIME AS THE OPTIMUM COMPACTION REQUIREMENTS ARE OBTAINED. THIS IS STRICTLY ENFORCED TO ENSURE LONG-TERM STRUCTURAL INTEGRITY OF THE WORK.

24. FOR FURTHER DETAILS NOT SHOWN ON THESE PLANS SEE CITY OF NEWTON GENERAL CONSTRUCTION DETAILS @ [www.ci.newton.ma.us/dpw/engn/General Construction Details.pdf](http://www.ci.newton.ma.us/dpw/engn/General%20Construction%20Details.pdf)

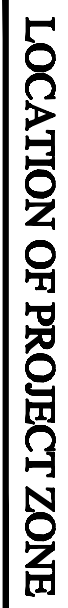
25. ALL "SHORT-TERM" STEEL TRENCH PLATES, (UP TO FIVE CALENDAR DAYS OF USE), ARE TO BE SECURED IN SUCH A MANNER SO AS TO PREVENT MOVEMENT AND/OR "BATTING". ALL "LONG-TERM" PLATES ARE TO BE RECESSED INTO THE EXISTING ROADWAY.

26. THE CONTRACTOR IS TO MAINTAIN AND/OR PROVIDE EMERGENCY VEHICLE ACCESS THROUGHOUT EACH PROJECT AREA. IN ADDITION, NO TRAFFIC DELAY IS TO EXCEED FIVE MINUTES IN DURATION ON ANY AIRPORT ROAD. ALL SECONDARY ROADS MUST BE APPROPRIATELY DETOURED, MARKED, OR ADDITIONALLY SIGNED TO PREVENT DELAYS AND/OR CONFUSION.

27. IF DETOURED OR DIRECTED BY THE ENGINEER ALL SECONDARY ROADS MUST BE APPROPRIATELY SIGNED TO PREVENT DELAYS AND/OR DIRECTIONAL CONFUSION.

28. BITUMINOUS CONCRETE APPLIED TO THE ROADWAY SHALL ONLY BE APPLIED IN BRIGHT SUNSHINE OR PARTLY CLOUDY WEATHER WITHOUT THE THREAT OF RAIN. THE CONTRACTOR IS NOT TO SCHEDULE BITUMINOUS ROADWAY APPLICATION UNLESS SUCH FAVORABLE WEATHER CONDITIONS ARE PROFESSIONALLY FORECAST BY A RECOGNIZED WEATHER AGENCY. FURTHER, NO BITUMINOUS CONCRETE WHICH HAS BEEN PRE-MATURALLY COOLED BY RAIN, EITHER ON THE TRUCK OR ON THE ROADWAY, WILL BE ACCEPTED.

29. POLICE DETAILS ARE TO BE COORDINATED BY THE CONTRACTOR.



APRIL 30, 2012

FROM

REPLACEMENT

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PLAN

REPLACEMENT

OFA

FROM

ROWE ST. to WEBSTER ST.

SCALE: AS NOTED

APRIL 30, 2012

Louis M. Taverna, P.E. City Engineer

